

Amendments to the Abstract

ABSTRACT-OF-THE-DISCLOSURE

A method for automatically transitioning a processor to another performance level in a demand-based system. ~~The~~ One embodiment of the invention provides for the automatic adjustment of processor frequency while preserving system responsiveness. The performance-level policy algorithm ~~of the present invention~~ detects increased processor utilization quickly enough that transition to a higher performance level is comparable to maximum system performance. The performance-level policy algorithm ~~of an embodiment of the present invention~~ delays processor transition to a lower performance level so that quick reversals in demand do not precipitate unnecessary transitioning.